

ABSTRACT

A wireless network communication system consists of an access server for facilitating communication between a network resource interfacing with the access server over a land-based network and a wireless communications device interfacing with the access server over a wireless network. A message intended for transmission from the wireless communication device to the network resource is transmitted to the access server over a wireless network as a number of message datagrams. Upon receipt of the message datagrams over the wireless network, the access server generates and transmits to the wireless communication device an acknowledgement datagram indicating successful receipt of each message datagram, and transmits the successfully received message datagrams to the network resource over the land-based network. If a message datagram is not acknowledged, the wireless communication device continues to retransmit the unsuccessfully transmitted message datagram at a retransmission rate based on a running average of acknowledgment times for successfully transmitted ones of the message datagrams.

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